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Alan J. Smith

August 1985 **ACM Transactions on Computer Systems (TOCS)**, Volume 3 Issue 3

Full text available: pdf(3.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The current trend of computer system technology is toward CPUs with rapidly increasing processing power and toward disk drives of rapidly increasing density, but with disk performance increasing very slowly if at all. The implication of these trends is that at some point the processing power of computer systems will be limited by the throughput of the input/output (I/O) system. A solution to this problem, which is described and evaluated in this paper, is disk cache

2 [RAID: high-performance, reliable secondary storage](#)

Peter M. Chen, Edward K. Lee, Garth A. Gibson, Randy H. Katz, David A. Patterson

June 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 2

Full text available: pdf(3.60 MB)

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Disk arrays were proposed in the 1980s as a way to use parallelism between multiple disks to improve aggregate I/O performance. Today they appear in the product lines of most major computer manufacturers. This article gives a comprehensive overview of disk arrays and provides a framework in which to organize current and future work. First, the article introduces disk technology and reviews the driving forces that have popularized disk arrays: performance and reliability. It discusses the tw ...

Keywords: RAID, disk array, parallel I/O, redundancy, storage, striping**3 [A mass storage system for supercomputers based on Unix](#)**

J. Richards, T. Kummell, D. G. Zarlengo

November 1988 **Proceedings of the 1988 ACM/IEEE conference on Supercomputing**

Full text available: pdf(814.91 KB)

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This paper presents the design, implementation and utilization of a large Mass Storage Subsystem (MSS) at the Numerical Aerodynamics Simulation (NAS) at NASA-Ames Research Center. The MSS supports a large networked, multi-vendor Unix-based

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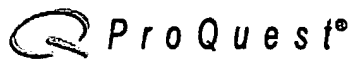
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